

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 7986

DATE: Feb. 9, 1988

PO #M4883

REPORT ON: LIQUID

SAMPLE

IDENTIFICATION: Submitted 1/27/88 and identified as shown:

ID #3200 - M4883

parts per million (mg/L)

Zinc	0.10
Chromium	<0.005
Copper	0.19
Nickel	0.01

Key

< = less than

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:veg



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

AKC-0015458

Laucks

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G. M. Owens

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AKC-0015460

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940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 7657

DATE: Jan. 13, 1988

PO# M4691

REPORT ON: LIQUID

SAMPLE

IDENTIFICATION: Submitted 01/07/88 and identified as shown below:

ID# 3200-M4691

TESTS PERFORMED AND RESULTS:

WRONG TEST -
SHOULD HAVE BEEN
FOR HEAVY METALS

Specific Gravity @ 70°F ----- 0.999

Total Acidity calculated as, % HNO₃
(methyl orange end point) ----- <0.03*

*pH is 10.9 and no acidity is present

Key

< indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:emt



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AKC-0015461

Laucks

Testing Laboratories, Inc.

940 South Harney St. Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 7657

DATE: Jan. 13, 1988

PO# M4691

REPORT ON: LIQUID

SAMPLE

IDENTIFICATION: Submitted 01/07/88 and identified as shown below:

ID# 3200-M4691

TESTS PERFORMED
AND RESULTS:

WRONG TEST -
SHOULD HAVE BEEN
FOR HEAVY METALS

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JMO:emt



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AKC-0015462

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DATE: Jan. 13, 1988

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AND RESULTS:

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AKC-0015463

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Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 7658

DATE: Jan. 18, 1988

PO No. M4692

REPORT ON: LIQUID

SAMPLE

IDENTIFICATION: Submitted 1/07/88 and identified as shown below:

ID# 3600-M4692

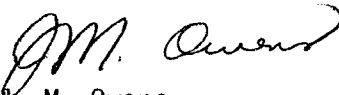
TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc	7.3
Chromium	0.048
Copper	0.037
Nickel	1.0

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:1aj



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AKC-0015464

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 7658

DATE: Jan. 18, 1988

PO No. M4692

REPORT ON: LIQUID

SAMPLE IDENTIFICATION: Submitted 1/07/88 and identified as shown below:
ID# 3600-M4692

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc	7.3
Chromium	0.048
Copper	0.037
Nickel	1.0

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:1aj



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AKC-0015465

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Certificate

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Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 7658

DATE: Jan. 18, 1988

PO No. M4692

REPORT ON: LIQUID

SAMPLE
IDENTIFICATION: Submitted 1/07/88 and identified as shown below:
ID# 3600-M4692

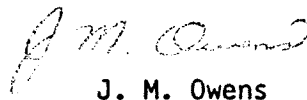
TESTS PERFORMED
AND RESULTS:

parts per million (mg/L)

Zinc	7.3
Chromium	0.048
Copper	0.037
Nickel	1.0

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AKC-0015466

ALASKAN COPPER Co. WEEKLY EFFLUENT REPORT

STARTING DATE 1, 4, 88 LOCATION 3200 ^{6th} Ave S.

ENDING DATE 1, 9, 88 TECHNICIAN Derek

Total of [#]Gals Used weekly

monday

$$\frac{16.}{1.7} = 27.2$$

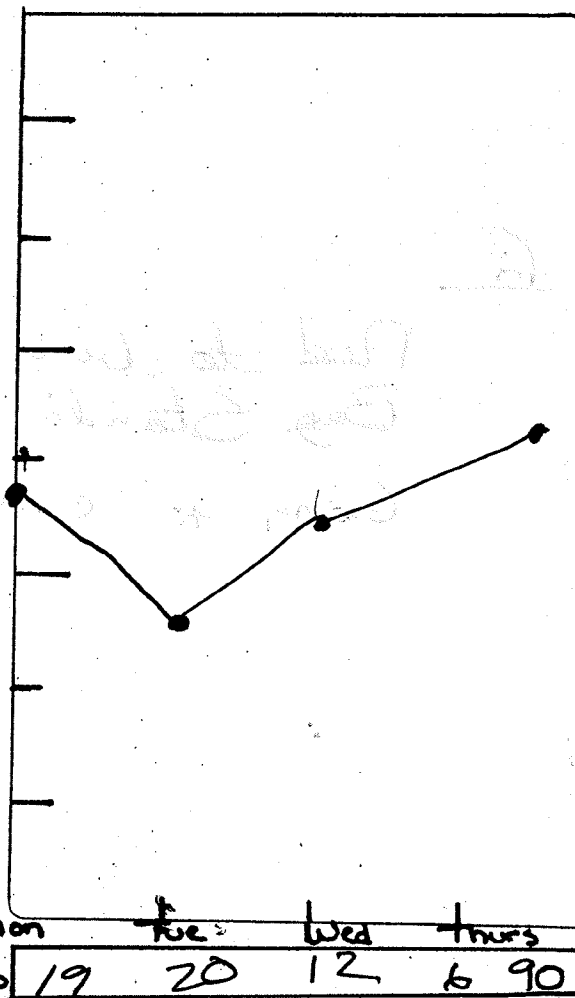
Ph paper Almost out

Sys Running By Tony

Did Regular Duties

most find if BIR leaks

Barrel Monitor
in. 18.50
- in. 2.50
= in. 16.



Tues

Tony Arrived early & turned pumps on system is OK

BIR leaks for sure BARRELS

Are All full & Need Dumping

Going to let sys Run until noon then complete clean out

#	mon	Tue	Wed	Thurs
Cycles	19	20	12	90

Wed

Arrived late cleaned Area Did changes

Valve on #2 hopper was stuck shut

Tried out New Sediment Filter Bag

& let set for 24 hrs.

Thurs

filter 1 Bag seemed to work
need to let it settle more
Most all barrels are full added 3 more
& chained tops of all.
Retilled Beta - flr

Fri

Need to buy more barrels & make more
Bag Stands System is AOK
Going to completely ~~re~~ clear entire System

ALASKAN Copper Co. WEEKLY EFFLUENT REPORT

STARTING DATE 1, 11, 88

LOCATION 3200 6th Ave S.

ENDING DATE 1, 15, 88

TECHNICIAN Duck

Total of Gals Used weekly

monday

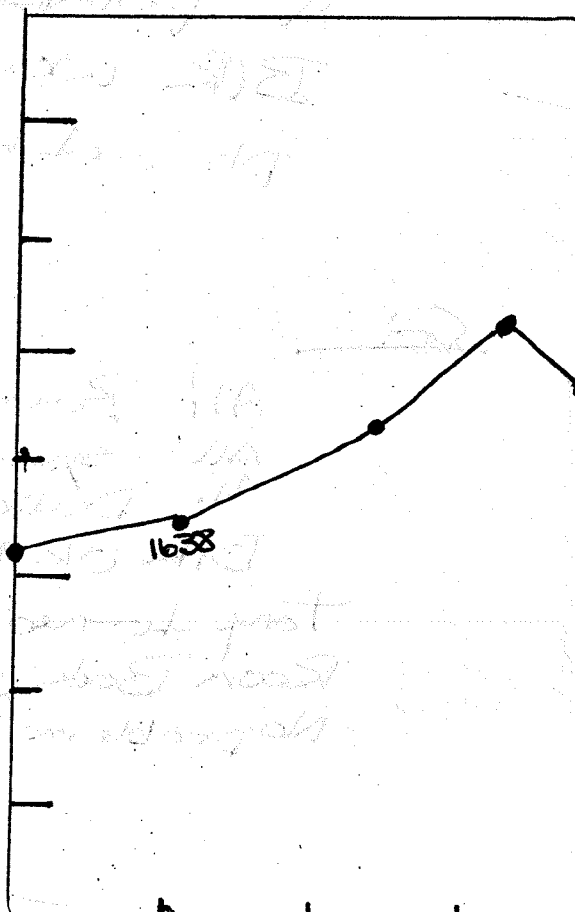
$$\underline{6.75} \times 1.7 = \underline{11.475 \text{ gals}}$$

System Ran Sat

NaOH is really low
Time for Refill caustic sys
cycled 90 times must be
malfunctioning need to see
Gary Bullard to help inspect
BIR looks for sure

Ph probe in process Sump Refill
must need to be cleaned -
Because it cant achieve
Desired ph even though it
is cycling Repeatedly

Barrel Monitor
Tuesday
in. 2.50
to 28.50
in.
in. 24.25



# cycles	mon	Tues	Wed	Thurs
	4 man		8	9

Bullard has process probe apart 500
I'm checking the System Manually
every hour Did all chores &
cleaned area & Refilled NaOH
Jim checked the New Filter Bags

led

System in OK cond.
Checking process sump manually

Thurs

yard was flooded & ph of mels sump
was low / Drained all barrells tops
& Pumped down flood

BIR wouldn't light for 1/2 hr.

ph meter is now being installed

Fri

A) Barrells Drained

All system's checked

All Duties Done

BIR OK Now timer Rt. ON

Tony turned pumps on early time to lock

Room Back up checked probes to paper

No problems Gary's Hooking up process probe

ALASKAN Copper Co.

WEEKLY EFFLUENT REPORT

STARTING DATE 1, 18, 88

LOCATION 3200 6th Ave S.

ENDING DATE 1, 22, 88

TECHNICIAN Derek

Total of [#]Gals Used weekly

monday

Carry over in Sat X 1.7 =

Because pump DNF

& strainer Basket was
Plugged up solid

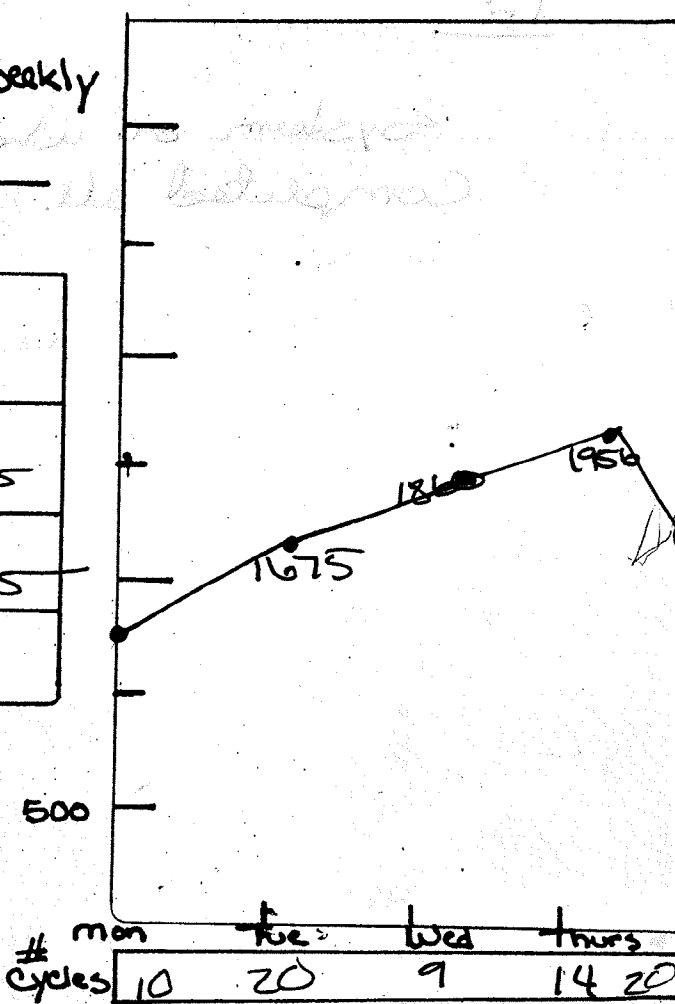
System is Back in

Full function

BIR still leaks water

Beta Dose Refilled

Barrel Monitor
in. 24.25
- in. 12.25
= in.



ues

System Ran ok yesterday
Completed all chores

led

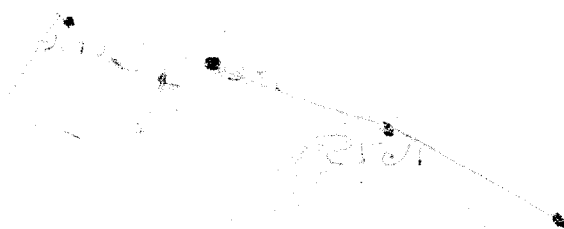
completed all

Thurs

Dumped Both Sumps: clean and
dry for a fresh weekend

Fri

System on when I got here for 15 min.
Completed all duties



S P1, P2, P3, P4, P5

ALASKAN Copper Co. WEEKLY EFFLUENT REPORT

STARTING DATE 1, 25, 88

LOCATION 3200 6th Ave S.

ENDING DATE 1, 31, 88

TECHNICIAN Derek

monday

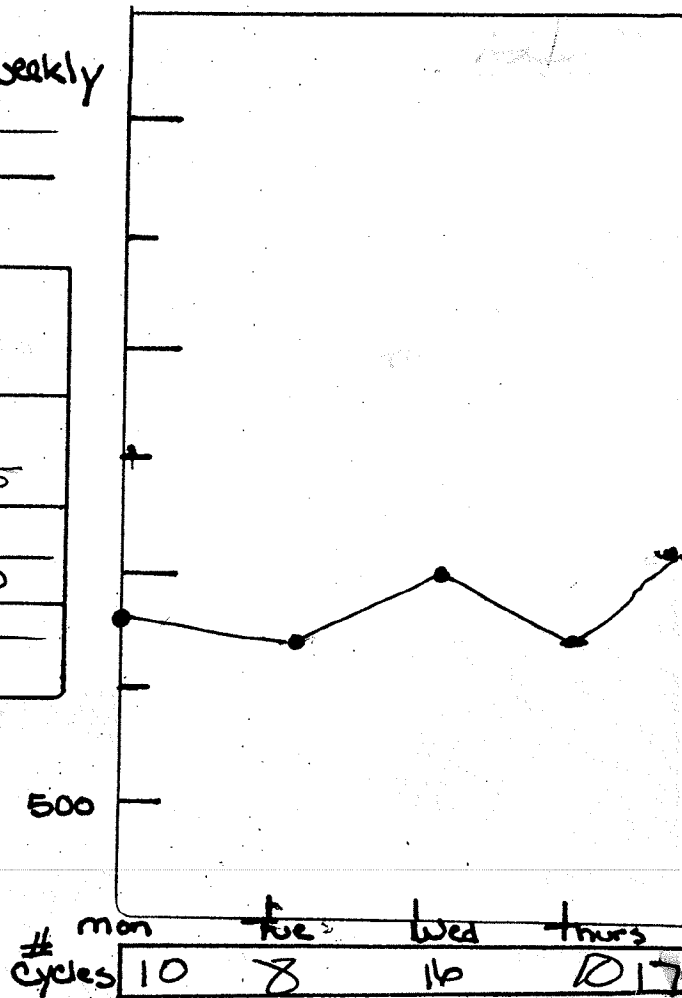
Total of Gals Used weekly

$$8.5 \times 1.7 = 14.45$$

Running out of Space for ~~Subment~~ Barrells need to ~~be~~ Buy New one's
 System is running A ok

moved all Barrells in front of Shack for optimum space need solution soon
ues

Barrel Monitor
in. 12.25
in. 3.75
= in. 8.5



Sys was on by Tony
 Flow meter DMF
 cleaned entire Area
 BIR Leaks
 So far 57 Barrells to many

led

cleaned Area moved Barrells into
 one Area
 Did Duties

ALASKAN COPPER Co.
WEEKLY EFFLUENT REPORT

STARTING DATE 1/4/88 LOCATION 3600

ENDING DATE 1/8/88 TECHNICIAN GR

6,482 GALLONS OF
WASTE EFFLUENT

52 cycles of NaOH

34 GALLONS OF
NaOH REMAIN.

ALASKAN COPPER Co.
WEEKLY EFFLUENT REPORT

STARTING DATE 1/11/88 LOCATION 3600

ENDING DATE 1/15/88 TECHNICIAN GB

10,377 GALLONS
OF WASTE EFFLUENT

51 cycles of NaOH

31 GALLONS of
 NaOH REMAIN

ALASKAN COPPER Co.
WEEKLY EFFLUENT REPORT

STARTING
DATE 1/18/88 LOCATION 3600

ENDING
DATE 1/22/88 TECHNICIAN GB

9575 GALLONS OF
WASTE EFFLUENT

70 cycles of NaOH

26 GALLONS OF
NaOH REMAIN

ALASKAN COPPER Co.
WEEKLY EFFLUENT REPORT

STARTING DATE 1/25/88 LOCATION 3600

ENDING DATE 1/29/88 TECHNICIAN GB

4,638 GALLONS OF
WASTE ~~EFFLUENT~~

86 cycles of NaOH

20 GALLONS OF
NaOH REMAIN



Waste Discharge Self Monitoring Report

(Report On Only Those Parameters Specified By Your Permit)

Mail to Metro, Inc.
821 Secor

Company Name ALASKAN COPPER WORKS-E.MARGINAL WAY

Month JANUARY 1988

No. of Employees (per day) Average 6

Permit No. 7201

Station No. A4009

Site No. N/A

All units mg/l unless otherwise noted Industry Ty

SAMPLE DATES (Circle)	SAMPLE TYPE (Daily, Composite or Grab)	pH		SETTLABLE SOLIDS (ml/l)	OIL & GREASE	Arsenic, As	Aluminum, Al	Cadmium, Cd	Chromium, Cr (Total)	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Selenium, Se	Silver, Ag	Zinc, Zn	Total Metals	Cyanide, CN.A	Cyanide, CN.T	Fluorene, F	Phosphorus, P	TTO	Flow (GPD) Total	Flow (GPD) Industrial	Flow (GPD) Other	Comments
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Please Circle all Permit Violations

I certify that I am familiar with the information contained in this report and that to the best of my knowledge such information is true, complete and accurate. I am aware of significant penalties for submitting false information.

Signature of Principal Executive or Authorized Agent

Comments:

AKC-0015479



Waste Discharge Self Monitoring Report

(Report On Only Those Parameters Specified By Your Permit)

Mail to: Metro, Inc.
821 Seco

Company Name ALASKAN COPPER WORKS-E.MARGINAL WAY

Month JANUARY 1988

No. of Employees (per day) Average 6

Permit No. 7201

Station No. A4009

Site No. N/A

All units mg/l unless otherwise noted

Industry T

SAMPLE DATES (Circle)	SAMPLE TYPE (Daily, Composite, or Grab)	pH		SETTLABLE SOLIDS (ml/l)	OIL & GREASE	Arsenic, As	Aluminum, Al	Cadmium, Cd	Chromium, Cr (Total)	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Selenium, Se	Silver, Ag	Zinc, Zn	Total Metals	Cyanide, CN A	Cyanide, CN T	Fluorene, F	Phosphorus, P	TTO	Flow (GPD) Total	Flow (GPD) Industrial	Flow (GPD) Other	Comments
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Comments:

AKC-0015480



Waste Discharge Self Monitoring Report

(Report On Only Those Parameters Specified By Your Permit)

Mail to Metro, Inc.
821 Seco

Company Name ALASKAN COPPER WORKS-E.MARGINAL WAY

Month JANUARY 1988

No. of Employees (per day) Average 6

Permit No. 7201

Station No. A4009

Site No. N/A

All units mg/l unless otherwise noted

Industry Ty

SAMPLE DATES (Circle)	SAMPLE TYPE (Daily, Composite or Grab)	pH		SETTLABLE SOLIDS (ml/l)	OIL & GREASE	Arsenic, As	Aluminum, Al	Cadmium, Cd	Chromium, Cr (Total)	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Selenium, Se	Silver, Ag	Zinc, Zn	Total Metals	Cyanide, CN, A	Cyanide, CN, T	Fluorene, F	Phosphorus, P	TTO	Flow (GPD) Total	Flow (GPD) Industrial	Flow (GPD) Other	Comments
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Comments:



Waste Discharge Self Monitoring Report

(Report On Only Those Parameters Specified By Your Permit)

Mail to Metro, Inc.
821 Seci

Company Name ALASKAN COPPER WORKS-6th AVE. SOUTH
Permit No. 7238 Station No. A4010

Month JANUARY 1988

No. of Employees (per day) Average 20
All units mg/l unless otherwise noted Industry 1

SAMPLE DATES (Circle)	SAMPLE TYPE (Daily, Composite or Grab)	pH		SETTLABLE SOLIDS (ml/l)	OIL & GREASE	Arsenic, As	Aluminum, Al	Cadmium, Cd	Chromium, Cr (Total)	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Selenium, Se	Silver, Ag	Zinc, Zn	Total Metals	Cyanide, CN A	Cyanide, CN T	Fluorene, F	Phosphorus, P	TTO	Flow (GPD) Total	Flow (GPD) Industrial	Flow (GPD) Other	Comments
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NOTE: THE 1/7/88 SAMPLE
WAS ANALYZED INCORRECTLY
(SEE ENCLOSED COPY)
AN ADDITIONAL EFFLUENT
SAMPLE WAS RE-SUBMITTED
AS INDICATED BELOW

5.0
5.0
5.0

0.005
0.019

0.01

0.10
0.305

1500

Please Circle all Permit Violations

I certify that I am familiar with the information contained in this report and that to the best of my knowledge such information is true, complete and accurate. I am aware of significant penalties for submitting false information.

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Comments:

AKC-0015482



Waste Discharge Self Monitoring Report

Mail to: Metro, Inc.
821 Seco

(Report On Only Those Parameters Specified By Your Permit)

Company Name ALASKAN COPPER WORKS-6th AVE. SOUTH
Permit No. 7238 Station No. A4010

Month JANUARY 1988

No. of Employees (per day) Average 20

Site No. N/A

All units mg/l unless otherwise noted

Industry T

SAMPLE DATES (Circle)	SAMPLE TYPE (Daily, Composite or Grab)	pH		SETTLABLE SOLIDS (ml/l)	OIL & GREASE	Arsenic, As	Aluminum, Al	Cadmium, Cd	Chromium, Cr (Total)	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Selenium, Se	Silver, Ag	Zinc, Zn	Total Metals	Cyanide, CN A	Cyanide, CN T	Fluorene, F	Phosphorus, P	TTO	Flow (GPD) Total	Flow (GPD) Industrial	Flow (GPD) Other	Commer
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NOTE: THE 1/7/88 SAMPLE
WAS ANALYZED INCORRECTLY
(SEE ENCLOSED COPY)
AN ADDITIONAL EFFLUENT
SAMPLE WAS RE-SUBMITTED
AS INDICATED BELOW

0.0
0.0

0.005
0.019

0.01

0.10
0.305

1500

Please Circle all Permit Violations

I certify that I am familiar with the information contained in this report and that to the best of my knowledge such information is true, complete and accurate. I am aware of significant penalties for submitting false information.

Signature of Principal Executive or Authorized Agent

Comments:



Waste Discharge Self Monitoring Report

(Report On Only Those Parameters Specified By Your Permit)

Mail to Metro, Inc.
821 Seci

Company Name ALASKAN COPPER WORKS-6th AVE. SOUTH
Permit No. 7238 Station No. A4010

Month JANUARY 19 88

No. of Employees (per day) Average 20

Site No. N/A All units mg/l unless otherwise noted Industry T

SAMPLE DATES (Circle)	SAMPLE TYPE (Daily, Composite or Grab)	pH		SETTABLE SOLIDS (ml/l)	OIL & GREASE	Arsenic As	Aluminum, Al	Cadmium, Cd	Chromium, Cr (Total)	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Selenium, Se	Silver, Ag	Zinc, Zn	Total Metals	Cyanide, CN A	Cyanide, CN T	Fluoride, F	Phosphorus P	TTO	Flow (GPD) Total	Flow (GPD) Industrial	Flow (GPD) Other	Comments
		MIN	MAX																							
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Signature of Principal Executive or Authorized Agent

Comments:

AKC-0015484

Laucks

Testing Laboratories, Inc.

940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 7659

DATE: Jan. 13, 1988

PO# M4693

REPORT ON: LIQUID

SAMPLE

IDENTIFICATION: Submitted 01/07/88 and identified as shown below:

- 1) ID# 3200-M4693
- 2) ID# 3600-M4693

TESTS PERFORMED AND RESULTS:

	<u>1</u>	<u>2</u>
Specific Gravity @ 70°F	1.272	1.090
Total Acidity calculated as, % HNO ₃ (methyl orange end point)	7.5	6.0

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:emt



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AKC-0015485